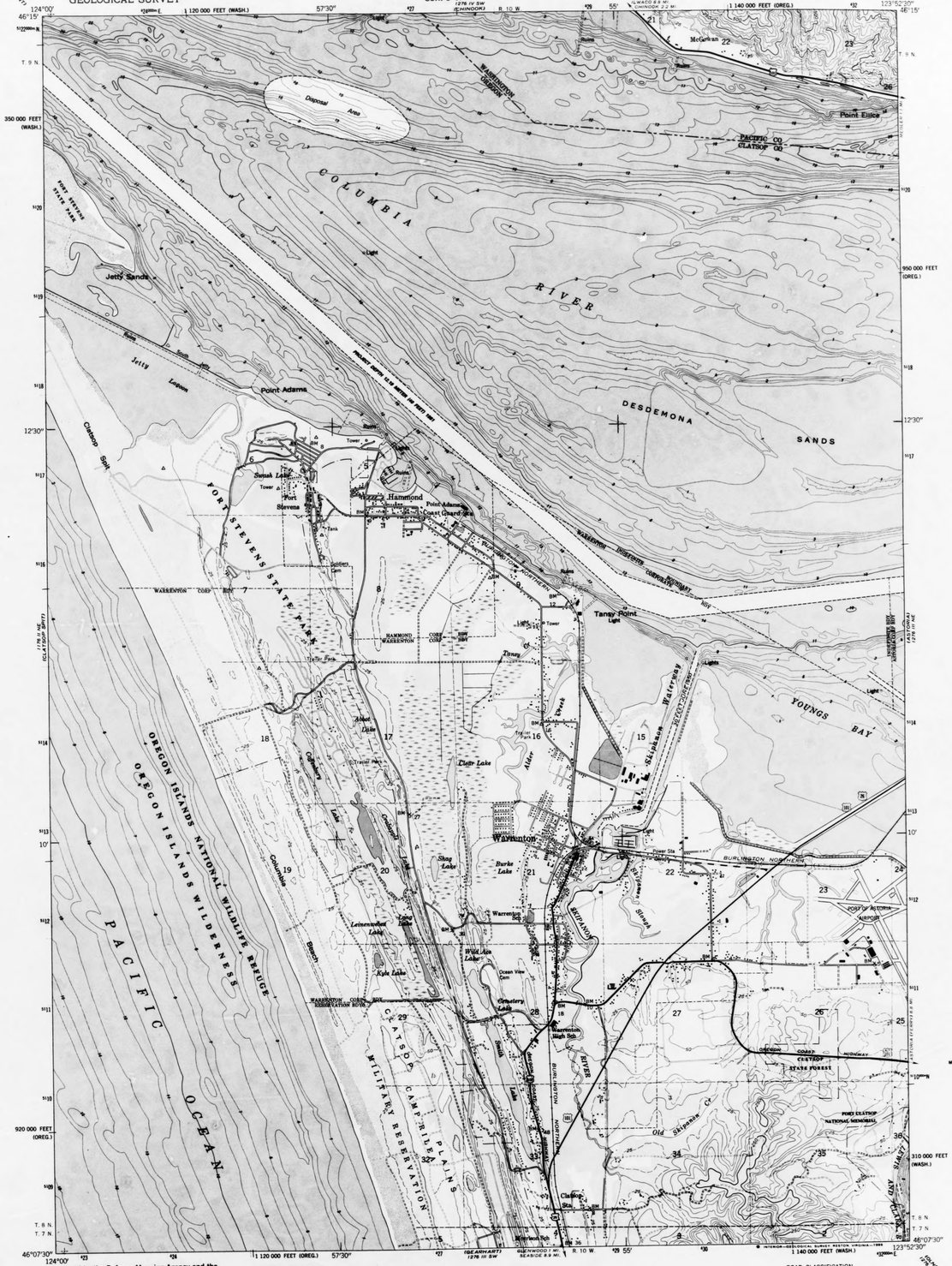
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

WARRENTON QUADRANGLE
OREGON – WASHINGTON
7.5 MINUTE SERIES (TOPOGRAPHIC – BATHYMETRIC)



CONVERSION SCALES

Feet	Meters
15000	4500
14000	
13000	4000
12000	3500
11000	
10000	3000
9000	
8000	2500
7000	
6000	2000
5000	1500
4000	
3000	1000
2000	600
1000	300
0	0

Feet	Meters
1	.3048
2	.6096
3	.9144
4	1.2192
5	1.5240
6	1.8288
7	2.1336
8	2.4384
9	2.7432
10	3.0480

To convert feet to meters multiply by .3048

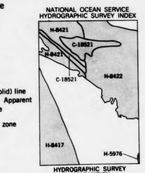
To convert meters to feet multiply by 3.2808

DEPTH GRADIENT

Meters	Feet
0	0
Exposed at low tide	
Maximum depth	

Mapped by the Defense Mapping Agency and the National Ocean Service
Published for civil use by the Geological Survey
Control by NOS/NOAA, USCE and Pacific Power and Light Company
Topography from aerial photographs by multiplex methods
Aerial photographs taken 1943. Field checked 1953
Bathymetry compiled by the National Ocean Service from tide-coordinated hydrographic surveys. This information is not intended for navigational purposes
Mean low water (dotted) line and mean high water (heavy solid) line compiled by NOS from tide-coordinated aerial photographs. Apparent shoreline (outer edge of vegetation) shown by light solid line
Polyconic projection. 1927 North American Datum
10,000-foot grid based on Oregon coordinate system, north zone and Washington coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 10, shown in blue
To place on the predicted North American Datum 1983, move the projection lines 24 meters north and 97 meters east as shown by dashed corner ticks
There may be private inholdings within the boundaries of the National or State reservations shown on this map
Revisions shown in purple compiled by the Geological Survey from aerial photographs taken 1981 and other sources
This information not field checked. Map edited 1984

NATIONAL OCEAN SERVICE HYDROGRAPHIC SURVEY INDEX



HYDROGRAPHIC SURVEY INFORMATION

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-5976	1935	1:10,000	.01–.05
H-8417	1958	1:20,000	.03–.35
H-8421	1958	1:10,000	.01–.17
H-8422	1958	1:10,000	.01–.17
NOS CHART 18521	MARCH 27, 1982		1:40,000

SCALE 1:24 000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 50 FEET
DASHED LINES REPRESENT 25 FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
BATHYMETRIC CONTOUR INTERVAL 6 FEET (2 METERS) WITH SUPPLEMENTARY 1 METER CONTOURS – DATUM IS MEAN LOWER LOW WATER
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
THE MEAN RANGE OF TIDE IS APPROXIMATELY 2.4 METERS

BASE MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
BATHYMETRIC SURVEY DATA COMPLIES WITH INTERNATIONAL HYDROGRAPHIC ORGANIZATION SPECIAL PUBLICATION 44 ACCURACY STANDARDS
ORGANIZATION STANDARDS USED AT THE DATE OF THE SURVEY
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20852
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

UTM GRID AND 1984 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

ROAD CLASSIFICATION

Heavy-duty	4 LANE 2 LANE	Light-duty	
Medium duty	4 LANE 2 LANE	Unimproved dirt	
U.S. Route		State Route	

WARRENTON, OREG.–WASH.
46123-88-TB-024

1953
PHOTOREVISED 1984
BATHYMETRY ADDED 1984
DMA 1276 III NW – SERIES V892